

Tank Installation & Compliance



Client – Cummins Engines Co Ltd, Daventry Head Office Project – Bulk Fuel Storage Relocation and Pipework Alterations

This project involved the relocation of three existing fuel tanks and modification of the fuel line which supplies fuel to various test beds through out the site on a “ring” supply line. The works were of paramount importance as the current system was insufficient to meet the fuel requirements of the sites nine test beds. The project was made complex as each test bed was required to remain operational through out the works, therefore timings and programming were a crucial factor.

The scope of works included:

- An initial detailed site survey was carried out to develop suitable methodology and planning of the existing fuel supply ring to the various test beds to allow continuous use throughout the working week
- During weekend shut down, the fuel supply lines were drained down, flushed through and suitable “stabbings” were installed within pipework to allow for the pick up of connections from the newly installed pipework
- Installation of approximately 200 metres of 50mm steel flanged pipework on a flow and return system. Majority of the pipework was at high level which required working off MEWP's. One element of the installation involved the pipework passing through a loft space which required restricted confined space works
- The new fuel line also included the installation of two high specification pump sets capable of delivering 330 litres per second at 7 bar
- A pressure relief valve system was install to dump fuel back into the bulk fuel storage tanks
- To ensure continuous supply of fuel the first two tanks were cleaned & degassed and relocated to a different location on the site within a newly constructed concrete bund
- The tanks required repairs to be carried out, which included new plates and straps to be fabricated and welded to reinforce the tanks cradle supports
- During a second weekend shut down the tanks and new fuel supply line were connected to the “stabbings” installed at an earlier date and commissioned into service
- The final part of this project required the removal of tank number three to adjoin the previously relocated two tanks in the new location

Works were completed to programme and timescales, giving the client a new fuel supply system capable of meeting their existing and future fuel supply needs to the test beds.

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